

INCH-POUND

W-F-1814/47B

15 December 2003

SUPERSEDING

W-F-1814/47A

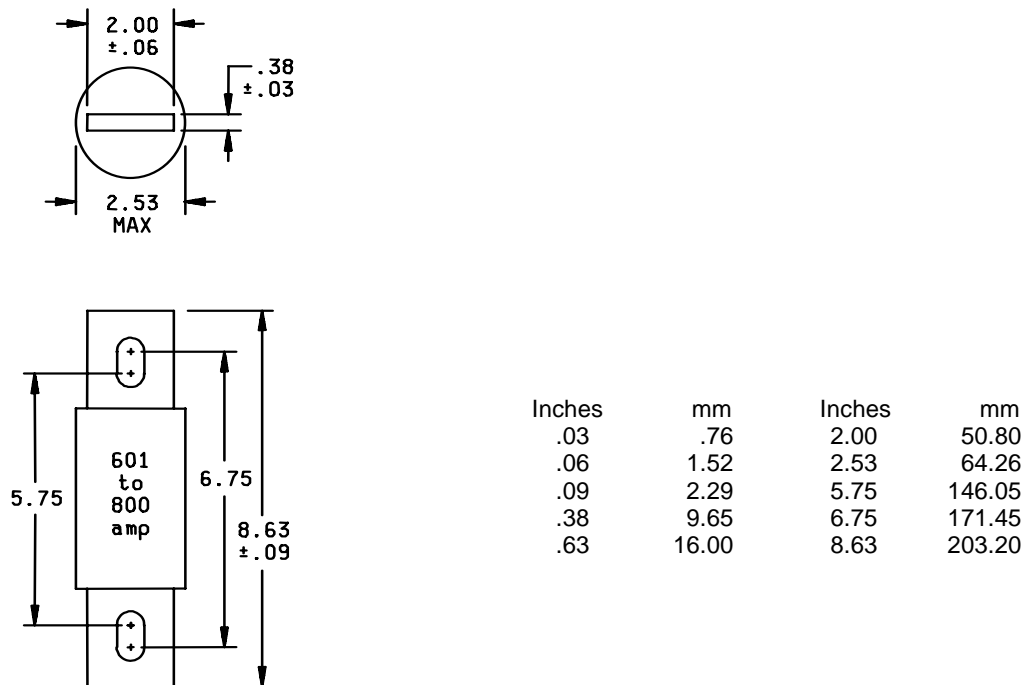
January 13, 1975

FEDERAL SPECIFICATION SHEET

FUSE, CARTRIDGE, HIGH INTERRUPTING CAPACITY, CLASS L
(CURRENT-LIMITING) 600 VOLTS, 601-800 AMPERES

The General Services Administration has authorized the use of this federal specification sheet by all federal agencies.

The complete requirements for procuring the fuses described herein shall consist of this document and the latest issue of Specification W-F-1814.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.02 (0.51 mm) for two-place decimals and ± 0.005 (0.13 mm) for three-place decimals.
4. Slots and holes shall be .62 (15.75 mm).

FIGURE 1. Configuration and dimensions.

REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Physical - Nonrenewable.

Terminals - Knife blade type.

Material - Brass, copper, or copper alloy.

Strength - 20 pound-inches torque between body and knife blades.

Body:

Insulating material - Ceramic, melamine-impregnated glass fiber, or the equivalent.

Electrical:

Voltage - 600 volts or less.

Frequency - 48 to 60 hertz.

Current - See table I.

Current carrying capacity - 110 percent of rated current indefinitely with temperature rise on the terminals not to exceed 65°C above the calibration temperature rise of the test equipment.

Overload interrupt:

Instantaneous - Shall interrupt within 240 minutes at 150 percent of rated current.

Time delay - In addition to the above requirement, the fuse shall not interrupt 500 percent of rated current within 4 seconds.

Interrupting capacity rating - 200,000 amperes rms symmetrical at 600 volts, 60 Hz and a power factor of 20 percent or less. Closing angle shall be essentially at the zero of the voltage wave (maximum offset) or later, to produce start of arcing within 30 electrical degrees prior to system peak voltage.

Threshold ratio - 30 maximum.

Peak let-thru current - 80×10^3 amperes maximum.

Maximum clearing I^2T - 10×10^3 ampere² seconds.

Applicable fuseholding device: Fuseholding devices shall provide mounting holes to correspond with those in the fuse as specified. All fuses shall be bolted into fuseholding device during operation.

Part number: See table I.

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TABLE I. Electrical characteristics.

Government part number	Current rating (amps)	Overload interrupt
WF1814/47-001	700	Instantaneous
WF1814/47-002	800	Instantaneous
WF1814/47-003	700	Time delay <u>1/</u>
WF1814/47-004	800	Time delay <u>1/</u>

1/ Should not be considered for use in new design.

MILITARY INTEREST:

Custodians:

Army - CR
Navy - YD
Air Force - 11
DLA - CC

Review Activities:

Army - AR, AT
Navy - OS
Air Force - 99

CIVIL AGENCY COORDINATING ACTIVITIES:

GSA - 7FXE
NASA - NA

Preparing Activity:
DLA - CC

(Project 5920-0797)